Entre 191

6. SEQUENCE LISTING

- (1) GENERAL INFORMATION:
 - (i) APPLICANT: Gan, Z. R.

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(ii) TITLE OF INVENTION:

Chimeric Protein Containing An

Intramolecular Chaperone-Like Sequence And

Its Application To Insulin Production

- (iii) NUMBER OF SEQUENCES: 7
- 10 (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE:
 - (B) STREET:
 - (C) CITY:
 - (D) STATE:
- 15 (E) COUNTRY:
 - (F) ZIP:
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: 3.5 inch diskette
 - (B) COMPUTER: IBM PC
 - (C) OPERATING SYSTEM: DOS
 - (D) SOFTWARE: WordPerfect 5.1
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: To Be Assigned
 - (B) FILING DATE: Filed Concurrently Herewith
- 25 (C) CLASSIFICATION;
 - (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (viii) ATTORNEY/AGENT INFORMATION:
- 30 (A) NAME:
 - (B) REGISTRATION NUMBER:
 - (C) REFERENCE/DOCKET NUMBER:
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE:
- 35 (B) TELEFAX:

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TELEX: (C) INFORMATION FOR SEQ ID NO: 1: (2) SEQUENCE CHARACTERISTICS: (i) LENGTH: 49 amino acids (A) 5 TYPE: amino acid (B) TOPOLOGY: linear (C) MOLECULE TYPE: protein (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 1: (xi) Met Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn Ala Met Leu 15 10 10 1 Arg Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr Gln Glu Phe Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn 45 40 35 15 Pro 50 INFORMATION FOR SEQ ID NO: 2: (3) SEQUENCE CHARACTERISTICS: (i) LENGTH: 92 amino acids 20 (A) TYPE: amino acid (B) TOPOLOGY: linear (C) SEQUENCE DESCRIPTION: SEQ ID NO: 2: Met Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn Ala Met Leu 15 25 1 5 Arg Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr Gln Glu Phe 25 20 Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn 40 30 Pro Gln Thr Ser Leu Ser Phe Ser Glu Ser Ile Pro Thr Pro Ser Asn 60 55 50 Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser

Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln

85

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INFORMATION FOR SEQ ID NO: 3:
   (4)
               SEQUENCE CHARACTERISTICS:
         (i)
                     LENGTH: 6 amino acids
               (A)
                     TYPE: amino acid
               (B)
 5
                     TOPOLOGY: linear
               (C)
               SEQUENCE DESCRIPTION: SEQ ID NO: 3:
         (xi)
   Leu Gly Thr Gly Pro Arg
         INFORMATION FOR SEQ ID NO: 4:
10 (5)
               SEQUENCE CHARACTERISTICS:
         (i)
                     LENGTH: 86 amino acids
               (A)
                     TYPE: amino acid
               (B)
                     TOPOLOGY: linear
               (C)
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
15
   Phe Val Asn Gln His leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
                                                                     15
   Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Thr Arg Arg
                                                               30
                                      25
20 Glu Ala Glu Asp Leu Gln Val Gly Gln Val Glu Leu Gly Gly Gly Pro
                                  40
   Gly Ala Gly Ser Leu Gln Pro Leu Ala Leu Glu Gly Ser Leu Gln Lys
                                               60
                            55
         50
   Arg Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln
                                                             80
                                           75
25 65
   Leu Glu Asn Tyr Cys Asn
                                     90
                     85
         INFORMATION FOR SEQ ID NO: 5:
   (6)
               SEQUENCE CHARACTERISTICS:
30
         (i)
                      LENGTH: 52 amino acids
                (A)
                      TYPE: amino acid
                (B)
                      TOPOLOGY: linear
                (C)
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
35 Phe Val Asn Gln His leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
                                                                      15
                                             10
    1
                      5
                                         29
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Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Thr Arg Gly
                                   25
   Ile Val Glu Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln Leu Glu
                              40
 5 Asn Tyr Cys Asn
         50
                           55
         INFORMATION FOR SEQ ID NO: 6:
   (7)
                SEQUENCE CHARACTERISTICS:
         (i)
                      LENGTH: 107 amino acids
10
                (A)
                (B)
                      TYPE: amino acid
                      TOPOLOGY: linear
                (C)
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
   Met Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn Ala Met Leu
                                                                        15
15 1
   Arg Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr Gln Glu Phe
                                   25
   Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn
                               40
20 Pro Leu Gly Thr Gly Pro Arg Phe Val Asn Gln His leu Cys Gly Ser
                             55
   His Leu Val Glu Ala Leu Tyr Leu Val Cys Gly Glu Arg Gly Phe Phe
                                                               80
                         70
   65
   Tyr Thr Pro Lys Thr Arg Gly Ile Val Glu Gln Cys Cys Thr Ser Ile
                                                                    95
25
   Cys Ser Leu Tyr Gln Leu Glu Asn Tyr Cys Asn
                                   105
                                                      110
                 100
          INFORMATION FOR SEQ ID NO: 7:
   (8)
30
                SEQUENCE CHARACTERISTICS:
          (i)
                (A)
                      LENGTH: 150 amino acids
                      TYPE: amino acid
                (B)
                      TOPOLOGY: linear
                (C)
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
35 Met Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn Ala Met Leu
                                                 10
                                                                            15
                     5
    1
                                          30
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	Arg Ala His Arg Leu His Gin Leu Ala Phe Asp Thr Tyr Gin Giu Phe						
	20		25	:	30		
	Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn						
	35	40		45			
5	Pro Gln Thr Ser Leu Ser Phe Ser Glu Ser Ile Pro Thr Pro Ser Asn						
	50	55		60			
	Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser						
	65	70		75			80
	Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln Leu Gly Thr Gly						
10	8.	5		90		95	
	Pro Arg Phe Val Asn Gln His leu Cys Gly Ser His Leu Val Glu Ala						
	100		105	110			
	Leu Tyr Leu Vai Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Thr						
	115		120		125		
15	Arg Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln						
	130	135		140			
	Leu Glu Asn Tyr Cys Asn						
	145	150					